PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACT	ION	See Form PCT/IPEA/416		
27909					
International application No.	International filing date (da	ny/month/year)	Priority date (day/month/year)		
PCT/IL04/00453	27 May 2004 (27.05.2004)		27 May 2003 (27.05.2003)		
International Patent Classification (IPC)	or national classification and	IPC			
IPC(7): A61K 31/66; C07F 9/02 and US Cl.: 514/114; 558/169, 170, 172.					
Applicant					
VASCULAR BIOGENICS, LTD					
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 					
2. This REPORT consists of	a total of Sheets, inclu	ding this cover sheet	•		
This report is also accomp	anied by ANNEXES, com	prising:			
a. (sent to the applica	ant and to the Internationa	l Bureau) a total of	sheets, as follows:		
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the Interna	ntional Bureau only) a tota	l of (indicate type an	d number of electronic carrier(s))		
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indic	ations relating to the follow	wing items:			
Box No. I B	asis of the report				
Box No. II P	riority	•			
	Non-establishment of opiniopplicability	on with regard to no	velty, inventive step and industrial		
Box No. IV L	ack of unity of invention				
	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement				
Box No. VI	Certain documents cited				
Box No. VII C	Certain defects in the interr	national application			
Box No. VIII C	Certain observations on the	international applica	ation		
Date of submission of the demand		Date of completion	of this report		
15 September 2004 (15.09.2004)		09 April 2005 (09.04	.2005)		
Name and mailing address of the IPEA/	US	Authorized officer	111/11/		
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		Robert Shiao	Illa ulling all		
P.O. Box 1450		TOPER PHISO A	ill allen for		
Alexandria, Virginia 223 13-1450 Facsimile No. (571)273-8300		Telephone No. (571)	272-1600 //		
Form PCT/IPEA/409 (cover sheet)(January 2004)					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/IL04/00453	

Box No. I Basis of the report					
 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 					
This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:					
international search (under Rules 12.3 and 23.1(b))					
publication of the international application (under Rule 12.4)					
international preliminary examination (under Rules 55.2 and/or 55.3)					
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
the international application as originally filed/furnished					
the description:					
pages 1-100 as originally filed/furnished					
pages* NONE received by this Authority on pages* NONE received by this Authority on received by the received by this Authority on received by the received b					
the claims: pages 101-120 as originally filed/furnished					
pages* NONE as amended (together with any statement) under Article 19					
pages* NONE received by this Authority on					
pages* NONE received by this Authority on					
the drawings:					
pages 1/16-16/16 as originally filed/furnished					
pages* NONE received by this Authority on					
pages* NONE received by this Authority on					
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3. The amendments have resulted in the cancellation of:					
the description, pages					
the claims, Nos					
the drawings, sheets/figs					
the sequence listing (specify):					
any table(s) related to the sequence listing (specify):					
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
the description, pages					
the claims, Nos					
the drawings, sheets/figs					
the sequence listing (specify):					
any table(s) related to the sequence listing (specify):					
* If item 4 applies, some or all of those sheets may be marked "superseded."					
Form PCT/IPRA/409 (Rox No. D. (Innuary 2004)					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IL04/00453

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims 52-90	YES		
1.0.0.0, (4)	Claims 1-51	NO		
Inventive Step (IS)	Claims <u>1-90</u> 52-90	YES		
	Claims NONE. 1 - 51	ио		
Industrial Applicability (IA)	Claims 1-90	YES		
industrial Application (23)	Claims NONE	NO		

2. Citations and Explanations (Rule 70.7)

Claims 1-51 lack novelty under PCT Article 33(2) as being anticipated by (1) Watson et al. publication, Journal of Biological Chemistry, 1997, 272(21), 13597-13607; (2) Shaw et al. publication, J. of Clinical Investigation, 2000,105(12), 1731-1740, also see CAS: 133:162827.

Applicants claim a compound/composition of formula (I) in claim 1 as agents treating inflammatory disease.

Watson et al. disclose a compound, see page 13603, Fig 6A, clearly anticipates the claimed compounds of formula (I), wherein the variable n is 3, the variable B1, B2, or B3 independently represents oxygen (i.e., O); the variable A1 or A2 independently C=O, X1 and X2 represent formula (II), and the variable m is 1 or 15, and the variable Z is W=CR"- when m is 1 of -A2-X2- of formula (I), and W is O, R" is hydroxy, or Z is hydrogen when m is 15 of -A1-X1- of formula (I), the variable R1, R'1, R2, R3, R'3, Ra, R'a, Rb, or R'b independently represent hydrogen; the variable Y represents phosphoryl choline.

Shaw et al. disclose a compound 3,5,9-trioxa-4-phosphapentacosan-1-aminum, 7-[(1,5-dioxopentyl)oxy]-4-hydroxy-N,N,N-trimethyl-10-oxo, clearly anticipates the claimed compounds of formula (I), wherein the variable n is 3, the variable B1, B2, or B3 independently represents oxygen (i.e., O); the variable A1 or A2 independently C=O, X1 and X2 represent formula (II), and the variable m is 1 or 15, and the variable Z is W=CR"-when m is 1 of -A2-X2- of formula (I), and W is O, R" is hydrogen; or Z is hydrogen when m is 15 of -A1-X1- of formula (I), the variable R1, R'1, R2, R3, R'3, Ra, R'a, Rb, or R'b independently represent hydrogen; the variable Y represents phosphoryl choline.

Claims 52-90 meet the criteria se out in PCT Article 33(2). Claims 52-90 are not anticipated over the art of record.

Claims 1-90 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/IPEA/409 (Box No. V) (January 2004)